



NOT classifications: supernovae 2018ekt and 2018exb

Stritzinger, M.; Dong, Subo ; Fynbo, J.; Alizai, K.; Gomez, C.; Haidari, F. ; Malloy, M.; Rehal, P. S. ; Slumstrup, D. ; Svendsen, S. B.

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On behalf of the Danish Summer School in Observational Astrophysics, currently being held at the Nordic Optical Telescope (NOT), we report the spectroscopic classifications of **SN 2018ekt** and **SN 2018exb**. The candidates were discovered by the Pan-STARRS Survey for Transients (PSST; Huber et al., ATel #7153) and ATLAS (Tonry et al. 2011; ATel #8680).

Observations were performed with the 2.56 m Nordic Optical Telescope equipped with ALFOSC (range 350-950 nm; resolution 1.6 nm FWHM).

Survey Name	IAU Name	Discovery (UT)	Discovery mag	Observation (UT)	Redshift	Type	Phase	Notes
PS18bby	SN2018ekt	2018-07-08.4	20.9	2018-08-15.1	0.015	Ia	+14d	(1)
ATLAS18tnd	SN2018exb	2018-08-11.4	17.7	2018-08-15.1	0.047	Ia	-7d	(2)

(1) Type Ia supernova around two weeks or more past maximum light. SNID (Blondin and Tonry 2007, ApJ, 666, 1024) determines good template fits for the redshift $z=0.015$. (2) SNID indicates decent matches with spectra of **SN 2006gr** and **SN 2007F** obtained around a week before maximum. Host red-shift of $z=0.047$ comes from The 6dF Galaxy Survey Data Release 3 (Jones et al. 2009, MNRAS, 399, 683). We note that SNID suggests a host redshift of $z=0.022$.

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